## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

| Application Serial Number: | 10/727, 358 B |
|----------------------------|---------------|
| Source:                    | IFW16         |
| Date Processed by STIC:    | 10/19/2006    |
| •                          |               |

## ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 10/19/2006
PATENT APPLICATION: US/10/727,358B TIME: 08:17:35

Input Set : A:\1216-1-006CIPSEQLISTREV10.06.TXT
Output Set: N:\CRF4\10192006\J727358B.raw

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4 <110> APPLICANT: Kolesnick, Richard N.
 5
         Xing, Hong-Mei R.
 7 <120> TITLE OF INVENTION: Kinase Suppressor of Ras Inactivation
         for Therapy of Ras Mediated Tumorigenesis
11 <130> FILE REFERENCE: 1216-1-006CIP
13 <140> CURRENT APPLICATION NUMBER: 10/727,358B
14 <141> CURRENT FILING DATE: 2003-12-03
16 <150> PRIOR APPLICATION NUMBER: 60/384,228
17 <151> PRIOR FILING DATE: 2002-05-30
19 <150> PRIOR APPLICATION NUMBER: 60/460,023
20 <151> PRIOR FILING DATE: 2003-04-03
22 <150> PRIOR APPLICATION NUMBER: PCT/US03/16961
23 <151> PRIOR FILING DATE: 2003-05-29
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61 <210> SEO ID NO: 4
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63 <212> TYPE: DNA
64 <213> ORGANISM: Homo sapiens
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Input Set : A:\1216-1-006CIPSEQLISTREV10.06.TXT
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| 128<br>129 | Arg    | Thr  | Ala | Glu<br>100 | Leu | Asn | Ser | Tyr  | Pro<br>105 | Arg  | Phe | Ser        | Asp | Trp<br>110 | Leu | Tyr   |
|            | Tlo    | Pho  | Λcn |            | 7~~ | Dro | Glu | 17-7 |            | Gln  | Glu | Tla        | Dro |            | Glu | T.611 |
| 131        | 110    | FILE | 115 | Vai        | ALG | FIO | GIU | 120  | Vai        | GIII | Gru | 110        | 125 | GIII       | GIU | пси   |
|            | mla sa | T    |     | 77.        | T   | T   | ~1  |      | 7 ~~       | ~1   | 77- | T          |     | T          | C1  | Mot   |
| 132        | rnr    | 130  | Asp | Ala        | Leu | Leu | 135 | мес  | Asp        | Glu  | Ala | Lуs<br>140 | Ala | ьуѕ        | GIU | Met   |
| 134        | Leu    | Arq  | Arq | Trp        | Gly | Ala | Ser | Thr  | Glu        | Glu  | Cys | Ser        | Arq | Leu        | Gln | Gln   |
|            | 145    | _    | •   | _          | _   | 150 |     |      |            |      | 155 |            |     |            |     | 160   |
| 136        | Ala    | Leu  | Thr | Cvs        | Leu | Arq | Lvs | Val  | Thr        | Gly  | Leu | Gly        | Gly | Glu        | His | Lys   |
| 137        |        |      |     | 4          | 165 |     | -   |      |            | 170  |     | -          | •   |            | 175 | -     |
| 138        | Met    | Asp  | Ser | Glv        | Trp | Ser | Ser | Thr  | Asp        | Ala  | Arq | asA        | Ser | Ser        | Leu | Gly   |
| 139        |        |      |     | 180        |     |     |     |      | 185        |      |     |            |     | 190        |     | •     |
| 140        | Pro    | Pro  | Met | Asp        | Met | Leu | Ser | Ser  | Leu        | Gly  | Arg | Ala        | Glv | Ala        | Ser | Thr   |
| 141        |        |      | 195 | •          |     |     |     | 200  |            | •    | _   |            | 205 |            |     |       |
| 142        | Gln    | Gly  | Pro | Arq        | Ser | Ile | Ser | Val  | Ser        | Ala  | Leu | Pro        | Ala | Ser        | Asp | Ser   |
| 143        |        | 210  |     | _          |     |     | 215 |      |            |      |     | 220        |     |            | -   |       |
| 144        | Pro    | Val  | Pro | Gly        | Leu | Ser | Glu | Gly  | Leu        | Ser  | Asp | Ser        | Cys | Ile        | Pro | Leu   |
|            | 225    |      |     | •          |     | 230 |     | •    |            |      | 235 |            | •   |            |     | 240   |
| 146        | His    | Thr  | Ser | Gly        | Arq | Leu | Thr | Pro  | Arg        | Ala  | Leu | His        | Ser | Phe        | Ile | Thr   |
| 147        |        |      |     | -          | 245 |     |     |      | -          | 250  |     |            |     |            | 255 |       |
| 148        | Pro    | Pro  | Thr | Thr        | Pro | Gln | Leu | Arq  | Arq        | His  | Ala | Lys        | Leu | Lys        | Pro | Pro   |
| 149        |        |      |     | 260        |     |     |     | _    | 265        |      |     | •          |     | 270        |     |       |
| 150        | Arg    | Thr  | Pro | Pro        | Pro | Pro | Ser | Arg  | Lys        | Val  | Phe | Gln        | Leu | Leu        | Pro | Ser   |
| 151        | _      |      | 275 |            |     |     |     | 280  | _          |      |     |            | 285 |            |     |       |
| 152        | Phe    | Pro  | Thr | Leu        | Thr | Arg | Ser | Lys  | Ser        | His  | Glu | Ser        | Gln | Leu        | Gly | Asn   |
| 153        |        | 290  |     |            |     | -   | 295 |      |            |      |     | 300        |     |            |     |       |
| 154        | Arg    | Ile  | Asp | Asp        | Val | Thr | Pro | Met  | Lys        | Phe  | Glu | Leu        | Pro | His        | Gly | Ser   |
| 155        | 305    |      |     |            |     | 310 |     |      |            |      | 315 |            |     |            |     | 320   |
| 156        | Pro    | Gln  | Leu | Val        | Arg | Arg | Asp | Ile  | Gly        | Leu  | Ser | Val        | Thr | His        | Arg | Phe   |
| 157        |        |      |     |            | 325 |     |     |      |            | 330  |     |            |     |            | 335 |       |
| 158        | Ser    | Thr  | Lys | Ser        | Trp | Leu | Ser | Gln  | Val        | Cys  | Asn | Val        | Cys | Gln        | Lys | Ser   |
| 159        |        |      |     | 340        |     |     |     |      | 345        |      |     |            |     | 350        |     |       |
| 160        | Met    | Ile  | Phe | Gly        | Val | Lys | Cys |      | His        | Cys  | Arg | Leu        | Lys | Cys        | His | Asn   |
| 161        |        |      | 355 |            |     |     |     | 360  |            |      |     |            | 365 |            |     |       |
| 162        | Lys    | Cys  | Thr | Lys        | Glu | Ala | Pro | Ala  | Cys        | Arg  | Ile | Thr        | Phe | Leu        | Pro | Leu   |
| 163        |        | 370  |     |            |     |     | 375 |      |            |      |     | 380        |     |            |     |       |
| 164        | Ala    | Arg  | Leu | Arg        | Arg |     | Glu | Ser  | Val        | Pro  | Ser | Asp        | Ile | Asn        | Asn | Pro   |
| 165        |        |      |     |            |     | 390 |     |      |            |      | 395 |            |     |            |     | 400   |
| 166        | Val    | Asp  | Arg | Ala        | Ala | Glu | Pro | His  | Phe        | Gly  | Thr | Leu        | Pro | Lys        | Ala | Leu   |
| 167        |        |      |     |            | 405 |     |     |      |            | 410  |     |            |     |            | 415 |       |
|            | Thr    | Lys  | Lys |            | His | Pro | Pro | Ala  |            | Asn  | Leu | Asp        | Ser | Ser        | Ser | Asn   |
| 169        |        |      |     | 420        |     |     |     |      | 425        |      |     |            |     | 430        |     |       |
|            | Pro    | Ser  |     | Thr        | Thr | Ser | Ser | Thr  | Pro        | Ser  | Ser | Pro        | Ala | Pro        | Phe | Leu   |
| 171        |        |      | 435 |            |     |     |     | 440  |            |      |     |            | 445 |            |     |       |
|            | Thr    |      | Ser | Asn        | Pro | Ser |     | Ala  | Thr        | Thr  | Pro |            | Asn | Pro        | Ser | Pro   |
| 173        | _      | 450  |     |            |     |     | 455 |      |            |      |     | 460        | •   | _          |     | _     |
|            | _      | Gln  | Arg | Asp        | Ser | _   | Phe | Ser  | Phe        | Pro  | _   | Ile        | Ser | Ala        | Cys |       |
| 175        |        | _    | _   |            |     | 470 |     |      | _          |      | 475 | _          |     |            |     | 480   |
| 176        | Gln    | Ala  | Ala | Pro        | Leu | Ser | Ser | Thr  | Ala        | Asp  | Ser | Thr        | Arg | Leu        | Asp | Asp   |

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| 177 | <b>61</b>  | <b>D</b>   | <b>T</b>       | <b>m</b> l | 485      | T7 - 7     | T            | a1          | 77-7        | 490         | <u>ما</u>   | 77-         | a1         | 77-        | 495           | ~1         |
|     | Gln        | Pro        | гуѕ            |            | Asp      | vai        | ьeu          | GIA         |             | HIS         | GIU         | Ата         | GIU        |            | GIU           | GIU        |
| 179 | D          | <b>a</b> 1 | 77.            | 500        | <b>T</b> | 0          | <b>a</b> 1   | 77 -        | 505         | 7           | 7           | ۵1          | <i>α</i> 1 | 510        | C1            | 1701       |
|     | Pro        | GIU        |                | GIA        | ьys      | ser        | GIU          |             | GIU         | Asp         | Asp         | GIU         |            | Asp        | GIU           | vai        |
| 181 | •          | •          | 515            | <b>D</b>   | 0        | 0          | *            | 520         | D           |             | 7           | <b>a</b> 1  | 525        | T1 _       | Com           | 7          |
|     | Asp        | _          | Leu            | Pro        | ser      | ser        |              | Arg         | Pro         | Trp         | Arg         |             | Pro        | TTE        | ser           | Arg        |
| 183 | _          | 530        | _              |            | _,       | _          | 535          | _           | _           | ~ 7         | ~3          | 540         | •          | -1.        | D             | Dl         |
|     | Lys        | Ala        | Ser            | GIn        | Thr      |            | vai          | Tyr         | Leu         | GIn         |             | Trp         | Asp        | тте        | Pro           |            |
|     | 545        |            |                |            | _        | 550        |              | _           |             |             | 555         |             | _          |            | ~7            | 560        |
|     | Glu        | GIn        | Val            | Glu        |          | Gly        | GIu          | Pro         | шe          |             | GIn         | GLY         | Arg        | Trp        |               | Arg        |
| 187 |            | •          | _              | ~3         | 565      | _          |              | <b>~</b> 1  | <b>~</b> 1  | 570         |             | -7.         | 3          | •          | 575           |            |
|     | Val        | His        | Arg            | _          | Arg      | Trp        | His          | GIĀ         |             | vaı         | Ala         | тте         | Arg        |            | Leu           | GIU        |
| 189 |            | _          | ~-7            | 580        | _        | ~7         | _            |             | 585         | _           | _           | 51          | <b>.</b>   | 590        | <b>~</b> 1    | **- 7      |
|     | Met        | Asp        | -              | His        | Asn      | GIn        | Asp          |             | Leu         | ьуs         | Leu         | Pne         | -          | гуѕ        | GIU           | vai        |
| 191 |            | _          | 595            | _          | ~-7      | _,         | _            | 600         | ~7          | _           |             | ** . 7      | 605        | D1         | <b>37</b> - L | <b>a</b> 1 |
|     | Met        |            | Tyr            | Arg        | GIn      | Thr        | _            | His         | GIU         | Asn         | vai         |             | ьeu        | Pne        | мет           | GIY        |
| 193 |            | 610        |                | _          | _        | _          | 615          | _           |             |             |             | 620         |            | <b>5</b> 1 | <b>a</b> .    | •          |
|     | Ala        | Cys        | Met            | Asn        | Pro      |            | His          | Leu         | Ala         | тте         |             | Thr         | ser        | Pne        | Cys           |            |
|     | 625        | _          | _,             | _          | •        | 630        | -1.          |             | •           |             | 635         | <b>.</b>    | m1         | G          | <b>T</b>      | 640        |
|     | Gly        | Arg        | Thr            | Leu        |          | ser        | Pne          | vaı         | Arg         |             | Pro         | ьys         | Thr        | ser        |               | Asp        |
| 197 |            | _          | _              | -1         | 645      | ~1         | - 7          |             | <b>61</b> . | 650         | <b>-1</b> - | <b>-1</b> - | <b>T</b>   | ~1         | 655           | <b>a</b> 1 |
|     | Ile        | Asn        | ьуs            |            | Arg      | GIN        | ше           | Ala         |             | GIU         | ше          | ше          | ĻУS        |            | мет           | GIY        |
| 199 |            |            | ***            | 660        | <b>.</b> | <b>~</b> 1 | <b>-</b> 1 - | ** - 7      | 665         | T           | 3           | T           | T          | 670        | T             | 7 ~~       |
|     | Tyr        | ьeu        |                | Ата        | ьys      | GIY        | me           |             | HIS         | ьуs         | Asp         | ьeu         |            | ser        | ьуѕ           | ASII       |
| 201 | ** . 7     | <b>D</b> 1 | 675            | <b>3</b>   | <b>3</b> | <b>a</b> 1 | *            | 680         | **- 3       | <b>-1</b> - | ml          | 7           | 685        | <b>a</b> 1 | T             | Dha        |
|     | Val        |            | Tyr            | Asp        | ASI      | GIY        |              | vaı         | vai         | тте         | THE         |             | Pne        | GIY        | ьец           | Pile       |
| 203 | <b>a</b> 1 | 690        | a              | <b>~1</b>  | **- 7    | 77-7       | 695          | <b>~1</b>   | ~1          | 7           | 7           | 700         | 7 ~~       | ~1 m       | T 011         | T ***      |
|     | Gly        | TTE        | ser            | GIY.       | vaı      |            | Arg          | GIU         | GIU         | Arg         |             | GIU         | ASII       | GIII       | ьeu           | лув<br>720 |
|     | 705<br>Leu | C          | TT             | 7          | TT       | 710        | O            | П           | T 011       | 77.         | 715         | C1          | т1 о       | 77-7       | 7. ~~         |            |
|     | ьеи        | ser        | пір            | Asp        | 725      | ьец        | Cys          | TYL         | теп         | 730         | PIO         | Gru         | 116        | vaı        | 735           | Giu        |
| 207 | Met        | T10        | Dro            | C1.,       |          | 7\ an      | C1,,         | 7 cm        | Cl n        |             | Dro         | Dhe         | Cor        | Luc        |               | בומ        |
| 208 | Mec        | TIE        | PIO            | 740        | Arg      | Asp        | GIU          | ASP         | 745         | Leu         | PIO         | Pne         | ser        | 750        | Ата           | Αια        |
|     | Asp        | 17a ]      | Туг            |            | Dha      | G1 v       | Thr          | TeV         | _           | Tur         | Glu         | T.011       | Gln        |            | Δrα           | Asn        |
| 211 | Asp        | vai        | 755            | Ата        | FIIC     | Gry        | 1111         | 760         | пр          | ıyı         | Gru         | пса         | 765        | AΙα        | 9             | пор        |
|     | Trp        | Pro        |                | Tare       | Hic      | Gl n       | Dro          |             | Glu         | Δla         | T.e.11      | Tle         |            | Gln        | Tle           | Glv        |
| 213 | пр         | 770        | FILE           | шуз        | 1113     | GIII       | 775          | niu         | GIU         | AIG         | пси         | 780         | 115        | 0111       | 110           | 017        |
|     | Ser        |            | G111           | Glv        | Val      | Δra        |              |             | T.011       | Δla         | Ser         |             | Ser        | Len        | Glv           | Lvs        |
|     | 785        | GLY        | Olu            | OLY        | Val      | 790        | m 9          | Val         | пси         | 711 U       | 795         | Val         | 001        | Leu        | 017           | 800        |
|     |            | Val        | Glv            | Glu        | Tle      |            | Ser          | Δla         | Cvs         | Trn         |             | Phe         | Asp        | Leu        | Gln           | Glu        |
| 217 | OIU        | var        | O <sub>T</sub> | Olu        | 805      | пси        | 501          | 1114        | Cyb         | 810         |             |             | 1100       |            | 815           | 0_0        |
|     | Arg        | Pro        | Ser            | Dhe        |          | T.e.11     | T.e.11       | Met         | Asn         |             | T.eu        | Glu         | Ara        | Len        |               | Lvs        |
| 219 | nr 9       | 110        | DÇI            | 820        | DCI      | пси        | пси          | 1100        | 825         |             | <b></b>     | Q_Lu        |            | 830        |               |            |
|     | Leu        | Δen        | Δra            |            | T.e.11   | Ser        | His          | Pro         |             | His         | Phe         | Tro         | Lvs        |            | Δla           | Asp        |
| 221 | Leu        | 11011      | 835            | * 9        | Lcu      | 501        |              | 840         | - I         |             |             | 1           | 845        |            |               |            |
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| 223 | 110        | 850        | DCI            | DCI        | د ر ـ    | V U I      | 855          | 110         | 9           |             | - Lu        | 860         |            | 1          |               | 1          |
|     | Thr        |            | G1 11          | Ser        | Glv      | Asn        |              | Ive         | Met         |             |             |             |            |            |               |            |
|     | 865        | u          | JIU            |            | J-1      | 870        |              | <i>-,</i> 5 |             |             |             |             |            |            |               |            |
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Input Set : A:\1216-1-006CIPSEQLISTREV10.06.TXT
Output Set: N:\CRF4\10192006\J727358B.raw

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VERIFICATION SUMMARY

DATE: 10/19/2006

PATENT APPLICATION: US/10/727,358B

TIME: 08:17:36

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